

**WHAT IS CLAIMED IS:**

1. A photothermographic material having an inherent Dmin and Dmax optical density, comprising:
  - a support having hereon one or more thermally-developable imaging layers which are developable to produce an image when the photothermographic material is thermally processed; and
    - an area disposed along a length of at least one edge of the photothermographic material, the area having an optical density less than the Dmax and greater than the Dmin of the photothermographic material.
- 10 2. The photothermographic material of Claim 1, wherein the area is spaced from the at least one edge by at least about 0.1mm.
- 15 3. The photothermographic material of Claim 1, wherein the area is spaced from the at least one edge by less than about 0.5mm.
4. The photothermographic material of Claim 1, wherein the area extends from the at least one edge by no more than about 25mm.
- 20 5. The photothermographic material of Claim 1, wherein the area comprises a uniform optical density of between about 20 percent and about 80 percent of the Dmax of the photothermographic material.
- 25 6. The photothermographic material of Claim 1, wherein the area has been exposed to provide a uniform optical density of between about 1.2 OD to about 2.5 OD.
- 30 7. The photothermographic material of Claim 1, wherein the photothermographic material is adapted to be thermally processed using a thermal processor, and the photothermographic material is presented to the thermal

processor along the at least one edge such that the at least one edge is a leading edge when transported through the thermal processor.

8. The photothermographic material of Claim 1, wherein the  
5 thermally-developable imaging layers comprise a binder in a reactive association, a photosensitive silver halide, a non-photosensitive source of reducible silver ions, and a reducing composition for the reducible silver ions.

9. The photothermographic material of Claim 1, wherein the  
10 area comprises a half-tone style image.

10. The photothermographic material of Claim 1, wherein the area is comprised of a plurality of dots of Dmin and Dmax.

15 11. The photothermographic material of Claim 1, wherein the area comprises a non-uniform gradient optical density.

12. The photothermographic material of Claim 1, further  
comprises a protective overcoat, wherein the protective overcoat is comprised of  
20 at least a binder and an isocyanate compound, and wherein the amount of  
isocyanate compound in the protective overcoat is at least about 5% by weight of  
the binder.

13. The photothermographic material of Claim 1, wherein at  
25 least one the thermally-developable imaging layers comprises a binder and an  
isocyanate compound, and wherein the amount of isocyanate compound in the  
imaging layer is at least about 2% by weight of the imaging layer binder.

14. The photothermographic material of Claim 1, further  
30 comprises a protective overcoat, wherein the protective overcoat is comprised of  
at least a mixture of two or more binders, and wherein at least one of the overcoat

binders is an acrylic or methacrylic acid ester polymer and is present in an amount of at least about 5% of the total overcoat binder.

15. The photothermographic material of Claim 14, wherein the  
5 acrylic or methacrylic acid ester polymer is poly-methylmethacrylate.

16. A method of thermally processing a photothermographic material comprising a support having hereon one or more thermally-developable imaging layers, the method comprising the steps of:

10 exposing an area along at least one edge of the photothermographic material such that, when thermally processed by a thermal processor, the image density of the area will be less than a Dmax and greater than a Dmin of the photothermographic material; and

15 providing means to transport the photothermographic material to the thermal processor such that the edge is first transported through the thermal processor.

17. A method of forming a visible image, the method comprising the steps of:

20 exposing a first area of a photothermographic material to form a latent image, the photothermographic material comprising a support having hereon one or more thermally-developable imaging layers which are developed when the photothermographic material is thermally processed;

25 exposing a second area, different than the first area, of the photothermographic material disposed along a leading edge of the photothermographic material such that, when developed, the second area has an image density less than the Dmax and greater than the Dmin of the photothermographic material;

30 transporting the photothermographic material to a thermal processor such that the leading edge first contacts the thermal processor; and

thermally processing the first and second areas to develop the visible image.

18. The method of Claim 17, further comprising the steps of:
  - 5 exposing a third area, different from the first and second areas, of the photothermographic material disposed along a side edge of the photothermographic material such that, when developed, the third area has an image density of about Dmax of the photothermographic material; and
  - thermally processing the first, second, and third areas to develop
- 10 the visible image.